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(71) Applicant (for all designated States except US): **BOR-  
DEN CHEMICAL, INC.** [US/US]; 180 East Broad Street,  
Columbus, OH 43215 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WANTLING,  
Steven, Joseph** [US/US]; 116 Paradise Point Drive,  
Brandon, MS 39047 (US). **ZEPKA, Bonnie, Sherrard**  
[US/US]; 502 Lymington Court, Louisville, KY 40243  
(US). **DONLON, Thomas, Michael** [US/US]; 9808  
Winged Foot Drive, Louisville, KY 40223 (US).

(74) Agent: **VAN WYCK, Kenneth, P.**; Cantor Colburn LLP,  
55 Griffin Road South, Bloomfield, CT 06002 (US).

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(54) Title: GYPSUM PRODUCTS AND METHOD FOR THEIR MANUFACTURE

(57) Abstract: A method is provided which uses an improved emulsion to imparting water-resistance to gypsum products. In one embodiment, gypsum products comprise calcium sulfate dihydrate and an emulsion which comprises a saponified wax, a nonsaponifiable wax, an alkyl phenol, a surfactant/dispersant salt of polynaphthalenesulfonic acid, and carboxymethylcellulose. Optionally, the emulsions may contain a preservative, e.g., a biocide (mildewcide, fungicide, etc.). These gypsum products resist the uptake of water and therefore resist biological infestation without addition of a preservative.